

1632

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/473,872

DATE: 06/07/2000
 TIME: 07:54:39

Input Set : A:\Jef-yool.txt
 Output Set : N:\CRF3\06072000\I473872.raw

3 <110> APPLICANT: Yoon, Kyonggeun
 5 <120> TITLE OF INVENTION: Novel Gene Therapy Methods For The Treatment of Skin
 6 Disorders
 8 <130> FILE REFERENCE: JEFF-YOO01
 10 <140> CURRENT APPLICATION NUMBER: 09/473,872
 11 <141> CURRENT FILING DATE: 1999-12-28
 13 <160> NUMBER OF SEQ ID NOS: 68
 15 <170> SOFTWARE: PatentIn Ver. 2.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 16
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Artificial Sequence
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse
 24 tyrosinase polypeptide fragment
 26 <400> SEQUENCE: 1
 27 Phe Met Gly Phe Asn Cys Gly Asn Ser Lys Phe Gly Phe Gly Gly Pro
 28 1 5 10 15
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 48
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse
 38 tyrosinase gene fragment
 40 <400> SEQUENCE: 2
 41 ttcatgggtt tcaactgcgg aaactctaag ttgggatttg ggggccca 48
 44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 48
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial Sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse
 51 tyrosinase gene fragmet
 53 <220> FEATURE:
 55 <400> SEQUENCE: 3
 56 aagtacccaa agttgacgcc ttgagattc aaacctaaac ccccggtt 48
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 68
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:
 65 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
 66 oligonucleotide
 68 <400> SEQUENCE: 4
 69 actgcggaaa ctgtaagttt ggatttttta auccaaacut acaguuuccg cagugcggt 60
 70 tttcgcgc 68

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74 <211> LENGTH: 16
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse
80     tyrosinase polypeptide fragment
82 <400> SEQUENCE: 5
83 Phe Met Gly Phe Asn Cys Gly Asn Cys Lys Phe Gly Phe Gly Gly Pro
84   1             5             10             15
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 48
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse
94     tyrosinase gene fragment
96 <400> SEQUENCE: 6
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100 <210> SEQ ID NO: 7
101 <211> LENGTH: 48
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse
107     tyrosinase gene fragment
109 <400> SEQUENCE: 7
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113 <210> SEQ ID NO: 8
114 <211> LENGTH: 68
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
120     oligonucleotide
122 <400> SEQUENCE: 8
123 actgcggaaa ctctaagttt ggatttttta auccaaacut agaguuccg cagugcgcgt 60
124 tttegccgc                                           68
127 <210> SEQ ID NO: 9
128 <211> LENGTH: 19
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
135 <400> SEQUENCE: 9
136 aagaatgctg cccaccatg           19
139 <210> SEQ ID NO: 10
140 <211> LENGTH: 26
141 <212> TYPE: DNA

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142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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148 gacatagact gagctgatag tatgtt 26
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152 <211> LENGTH: 52
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse DSG3
158 gene fragment
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164 <210> SEQ ID NO: 12
165 <211> LENGTH: 78
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
171 Chimeric oligonucleotide
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
175 oligonucleotide
177 <400> SEQUENCE: 12
178 gggaccttga aggactatgc tgcgccagtc ttttgacugy cgcagcatag tccuucagg 60
179 ucccgcgcgt tttcgcgc 78
182 <210> SEQ ID NO: 13
183 <211> LENGTH: 52
184 <212> TYPE: DNA
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187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence: Mouse DSG3
189 gene fragment
191 <400> SEQUENCE: 13
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195 <210> SEQ ID NO: 14
196 <211> LENGTH: 79
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
202 Chimeric oligonucleotide
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
206 oligonucleotide
208 <400> SEQUENCE: 14
209 gggaccttga aggactatgc tgcgccagtc ttttgacugy cgcagcauaa guccuucagg 60
210 gucccgcgcg ttttcgcgc 79

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213 <210> SEQ ID NO: 15
214 <211> LENGTH: 79
215 <212> TYPE: DNA
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218 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
220     Chimeric oligonucleotide
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
224     oligonucleotide
226 <400> SEQUENCE: 15
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228 gucccgcgcg ttttcgcgc                                     79
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232 <211> LENGTH: 39
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Description of Artificial Sequence: COL7A1 gene
238     fragment from a normal human
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245 <211> LENGTH: 39
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: COL7A1 gene
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257 <210> SEQ ID NO: 18
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259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence: COL7A1
264     polypeptide fragment from a normal human
266 <400> SEQUENCE: 18
267 Ser Gln Ser Leu Arg Val Gln Met Thr Ala Ala Ser Gly
268 1          5          10
271 <210> SEQ ID NO: 19
272 <211> LENGTH: 39
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence: COL7A1 gene
278     fragment from a human with dystrophic EB
280 <400> SEQUENCE: 19

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281 agccaatcct tgagagtata gtggacagcg gccagtggc 39
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286 <212> TYPE: DNA
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: Description of Artificial Sequence: COL7A1 gene
291      fragment from a human with dystrophic EB
293 <400> SEQUENCE: 20
294 tcggtttaga actctcatat cacctgtcgc cggtcaccg 39
297 <210> SEQ ID NO: 21
298 <211> LENGTH: 68
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
304      Chimeric oligonucleotide
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
308      oligonucleotide
310 <400> SEQUENCE: 21
311 tccttgagag tacagtggac agcggttttc cgcuguccac tgtacucuca aggagcgcgt 60
312 ttctgcgc 68
315 <210> SEQ ID NO: 22
316 <211> LENGTH: 68
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
322      Chimeric oligonucleotide
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Description of Artificial Sequence: Chimeric
326      oligonucleotide
328 <400> SEQUENCE: 22
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330 ttctgcgc 68
333 <210> SEQ ID NO: 23
334 <211> LENGTH: 39
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: COL7A1 gene
340      fragment from a normal human
342 <400> SEQUENCE: 23
343 ggggagcctg gaaagcctgg tattcccggg ctcccaggc 39
346 <210> SEQ ID NO: 24
347 <211> LENGTH: 39
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial Sequence

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VERIFICATION SUMMARY

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